

Bridge, Culverts, and Drainage

- V009 Culvert Replacement**
Covers step-by-step procedure for replacing an entrance pipe culvert.
- V049 Bridge Maintenance for Local Road Crews**
This video shows maintenance procedures local road crews can use to keep bridges in good condition.
- V076 Bridge Deck Construction in Illinois**
This video provides the viewer with construction techniques to reduce bridge deck cracking caused by improper construction techniques. This is a very good video for construction inspectors, bridge construction personnel, and anyone else who is involved with bridge deck construction.
- V085 Aesthetic Bridge Rails and Guardrails**
Alternatives and improvements for aesthetic bridge rails and guardrails. Summarizes the crash testing and special features of concrete bridge rails and guardrails as described in "Summary Report on Aesthetic Bridge Rails and Guardrails" FHWA-SA-91-051.
- V086 Concrete Bridge Railings: The Modified Three Beam Guardrails - Cable Guardrails**
Covers the AASHTO Design guidelines for bridge railings. Reviews bridge railings tests and designs for all design classifications in accordance with the new AASHTO Guidelines.
- V087 Cleaning and Clearing of Bridges**
Describes why and how to clean all types of bridges and their components.
- V088 Concrete Bridge Deck Repair**
Details procedures for permanent repair of partial and full-depth bridge deck holes with cement concrete. Also, proper procedures and proper use of equipment and tools for cutting the concrete, cleaning out the hole.
- V089 Bridges Unbroken Inspection of Timber Piling**
This video presents new methods for inspecting timber bridge pilings.
- V104 Bridge Evaluation and Posting**
This is a 5 part video consisting of : Bridge Components and Inspection Standards, Bridge Deficiencies and Deterioration, Forces and Material Properties Affecting Strength, Bridge Posting and Permitting Process, and Bridge Management. This is a very good video for evaluating bridges and explaining the bridge posting process.
- V106 Mechanical Cleaning of Unlined Ditches**
This is a very good video illustrating ditch cleaning using a motorgrader and a grade all (backhoe). The tape defines the four principles features of a ditch and their functions. It illustrates set-up, ditch cleaning operations and reestablishing positive drainage.
- V116 The Clark Bridge and Price Lock**
This video shows the construction of the New Clark Cable Stayed Bridge and the Price Lock and Dam in Alton, IL.
- V117 Old Clark Bridge Demolition**
This video gives the history of the Old Clark Bridge over the Mississippi River at Alton, Illinois from its planning in 1803 to demolition in 1994.
- V123 Full Containment Bridge Painting**
A demonstration video on full containment bridge painting.
- V147 Bridge Deck Repair**
A hole in a concrete bridge deck is repaired from the travel surface by using a form hanger technique.
- V150 Timber Bridge #2**
Shows how modern timber bridges can be installed by local construction firms or municipal employees at lower cost and in less time than traditional bridge construction.
- V154 Modern Timber Bridges**
This video chronicles the construction of a demonstration timber bridge in Foster, Rhode Island. It also outlines the benefits of building timber bridges.
- V155 Bridge Deck Overlays**
Explains the bridge deck overlays in four major parts: deck condition, materials, surface preparation and overlay placement.

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V156 Concrete Bridge Protection, Repair, and Rehabilitation

Examines existing repair techniques and development of new techniques. New techniques on retaining much existing salt contaminated concrete in place. The product of this research is a field guide.

V174 Causes of the Failures of the Failures of the Big Sioux Bridge

This video examines the reasons behind the collapse of the Big Sioux Bridge over the Missouri River in 1962.

V177 White Gold

This video illustrates a low cost method for fabrication of timber decks over steel girders using methods developed by John Smelen, County Engineer for Ashtabula Co., Ohio.

V178 Prefabricated Timber Bridge Deck Panels

This video illustrates a low cost method for fabrication of timber decks over steel girders using methods developed by John Smelen, County Engineer for Ashtabula Co., Ohio.

V519 Super Bridge

This video takes a look at the construction of the (cable stayed) Clark Bridge spanning the Mississippi River at Alton, IL. Excellent video.